

In the claims,

~~Please cancel claims 1-18.~~

Please amend claims 19, 20, 24, 28, 30 and 31 as follows:

B⁶
19. (Currently amended) A recombinant microorganism capable of producing 1,3-propanediol from a carbon source said recombinant microorganism comprising a) at least one gene encoding a dehydratase activity; b) at least one gene encoding a glycerol-3-phosphatase; and c) at least one gene encoding protein X having at least 50% similarity to protein X encoded by the nucleic acid sequence of residues 9749 – 11572 of SEQ ID NO:19 or protein X encoded by ORF Z of the dha regulon of the genus of *Citrobacter*, wherein production of 1,3-propanediol is greater in the microorganism than in the absence of said nucleic acid encoding protein X.

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20. (Currently amended) The recombinant microorganism of Claim 19 further comprising d) at least one gene encoding a protein having at least 50% similarity to a protein selected from the group consisting of SEQ ID NO:60 or SEQ ID NO:61 [protein 1], of SEQ ID NO:62 or SEQ ID NO:63 [protein 2] and of SEQ ID NO:64 or SEQ ID NO:65 [protein 3].

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24. (Currently Amended) The recombinant microorganism of Claim 22 wherein the glycerol dehydratase gene cluster is from an organism selected from the genera consisting of *Klebsiella* and *Citrobacter* [*Citrobacter*].

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28. (Currently amended) The recombinant microorganism of Claim 19 wherein the gene encoding protein X has the sequence as shown [in] between positions 0749 – 11572 of SEQ ID NO:19 or ORF Z from the *Citrobacter* dha regulon [SEQ ID NO: 59].

30. (Currently amended) The recombinant microorganism [method] of Claim 20 wherein protein 2 has the sequence as shown in SEQ ID NO: 62 or SEQ ID NO: 63.

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31. (Currently amended) The recombinant microorganism [method] of Claim 20 wherein protein 3 has the sequence as shown in SEQ ID: 64 or SEQ ID NO: 65.